Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An optical fiber probe <u>for diagnosing a combustion</u> condition in a combustor, comprising:

an optical fiber;

a first protective pipe holding the optical fiber therein for protection; and a collet attached to a front part of the first protective pipe;

wherein an adhesive is filled in a base part of the first protective pipe to form a sealing plug.plug, and

the optical fiber is movable relative to the collet during diagnosis of the combustion condition.

- 2. (Canceled)
- 3. (Original) The optical fiber probe according to claim 1 further comprising a second protective pipe covering the optical fiber and fitted in the first protective pipe.
- 4. (Original) The optical fiber probe according to claim 1, wherein the first protective pipe is formed in a length such that the base part of the first protective pipe is cooled by natural cooling at temperatures nearly equal to an ordinary temperature.
- 5. (New) The optical fiber probe according to claim 1, wherein the optical fiber and the collet are heat-resistant.
- 6. (New) The optical fiber probe according to claim 1, wherein the optical fiber extends through the collet.